

# VS 200 SL

VideoShift™ Image Orbiter with ShiftLock™



## FEATURES

- Helps prevent CRT or plasma display burn-in
- Input: Female BNCs for RGSB and RGBHV
- Output: Female BNCs for RGSB and RGBHV
- Compatible with RGSB, RGS, or RGBHV signals
- Variable shift range affects horizontal and vertical pixel/line movement
- Imperceptible horizontal and vertical movement
- Test mode allows for setup of image by quickly shifting H&V so the image can be easily centered and sized
- Compatible with both interlaced and non-interlaced computer signals
- RGBHV output allows for the smoothest shifting
- 250 MHz (-3 dB) RGB video bandwidth
- ShiftLock™ allows for "sync-locking" up to 17 VS 200 SLs
- Rack-mountable
- 1U, half rack width metal enclosure
- Internal international power supply

## DESCRIPTION

The Extron **VS 200 SL** VideoShift with ShiftLock™ allows an image to be slowly "orbited" or shifted around a CRT or plasma display. Using Extron digital sync circuitry, the VS 200 SL is capable of shifting all types of computer signals, both horizontally and vertically at a very slow speed that it is imperceptible to the eye. This movement, up to one-fourth or 25% of the image, set by range adjustment, is all that is required to help prevent CRT or plasma display burn-in.

ShiftLock allows multiple VS 200 SLs to be "sync-locked" together allowing for simultaneous shifting of multiple images, such as for monitor/projector walls. Because many installations that require VideoShift to help extend the life span of a CRT or plasma display have multiple projection screens side-by-side, ShiftLock must be installed so that all images will move horizontally and vertically at the same time and in the same direction.

## SPECIFICATIONS

### VIDEO

Gain .....	Unity
Bandwidth .....	250 MHz (-3 dB), fully loaded
Frequency response .....	<±0.1 dB to 15 MHz

### VIDEO INPUT

Number / Signal type .....	1 RGBHV, RGSB, RGS
Connectors .....	5 female BNC
Minimum / Maximum levels ..	Analogue: 0.3 V to 1.25 Vp-p with no offset
Impedance .....	75 ohms
Horizontal frequency .....	15 kHz to 150 kHz
Vertical frequency .....	40 Hz to 140 Hz
Return loss .....	<-30 dB @ 5 MHz

## VIDEO SIGNAL CHARACTERISTICS

<b>Unit-to-unit tracking</b> (ShiftLock) .....	Between units: ±0.5 ns accuracy Long-term drift: ±0.5 ns accuracy <0.1 pixels @ 60 kHz <0.05 pixels @ 31.5 kHz
Rise time .....	<1.6 ns
Orbiting cycle length .....	19 minutes

## VIDEO OUTPUT

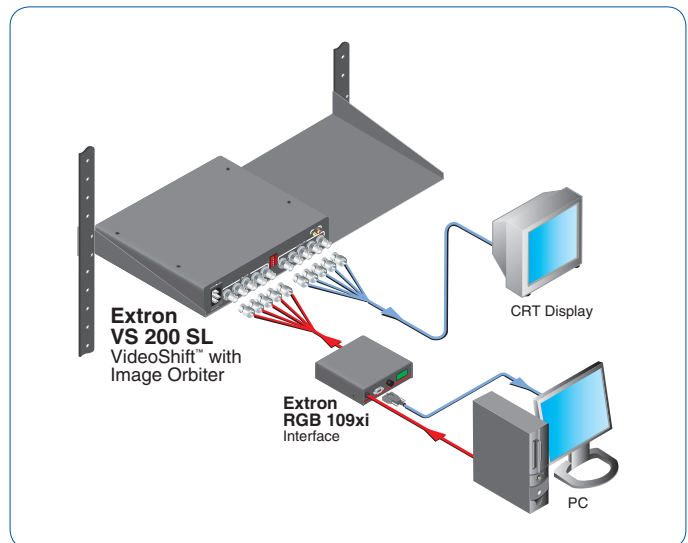
Number / Signal type .....	1 RGBHV, RGSB, RGS
Connectors .....	5 BNC female
Nominal level .....	0.7 Vp-p (excluding sync)
Impedance .....	75 ohms
Return loss .....	<-30 dB @ 5 MHz
DC offset .....	±5 mV maximum

## SYNC

Input type .....	RGBHV, RGSB, RGS
Output type .....	RGBHV, RGSB, RGS
ShiftLock connectors .....	2 female jacks (ShiftLock)
Input level .....	0.5 V to 5 Vp-p
Output level .....	TTL: 4 V to 5.0 Vp-p, unterminated
Input impedance .....	510 ohms
Output impedance .....	75 ohms
Max. Rise / Fall time .....	4.15 ns
Polarity .....	Positive or negative

## GENERAL

Power .....	100 VAC to 240 VAC, 50/60 Hz, 12 watts, internal, autoswitchable
Temperature / Humidity .....	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Rack mount .....	Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01
Enclosure type .....	Metal
Enclosure dimensions .....	1.7" H x 8.7" W x 9.4" D (1U high, half rack wide) 4.2 cm H x 22.1 cm W x 23.9 cm D (Depth excludes connectors and knobs.)
Product / Shipping weight .....	3.1 lbs (1.4 kg) / 6 lbs (3 kg)



## MODEL

<b>VS 200 SL</b>	Video Image Orbiter .....	<b>PART #</b>	60-175-01
------------------	---------------------------	---------------	-----------

## OPTIONAL ACCESSORIES

<b>MODEL DESCRIPTION</b>	<b>PAGE</b>	<b>PART #</b>
RSU 129 1U 9.5" Deep Universal Rack Shelf Kit .....	page 759	60-190-01
RSB 129 1U 9.5" Deep Basic Rack Shelf .....	page 760	60-604-01
MBU 129 1U, 1/2 Rack Width Under-Desk Mount Kit for Four-Piece Enclosure .....	page 756	70-219-01
SYM BNCM/6 15-pin HD Male to BNC Male Mini High Resolution Cables .....	page 716	26-533-02